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=> s zinc finger

L1 31152 ZINC FINGER

=> s nucleic acid binding protein

3 FILES SEARCHED...

L2 2059 NUCLEIC ACID BINDING PROTEIN

=> s l2 and method

L3 608 L2 AND METHOD

=> s l3 and production

L4 256 L3 AND PRODUCTION

=> s l4 and l1

L5 56 L4 AND L1

=> d l5 ti abs ibib 1-10

L5 ANSWER 1 OF 56 USPATFULL

TI Methods for generating polynucleotides having desired characteristics  
by

iterative selection and recombination

AB A **method** for DNA reassembly after random fragmentation, and  
its application to mutagenesis of nucleic acid sequences by in vitro or  
in vivo recombination is described. In particular, a **method**

for the **production** of nucleic acid fragments or polynucleotides encoding mutant proteins is described. The present invention also **relates** to a **method** of repeated cycles of mutagenesis, shuffling and selection which allow for the directed molecular evolution in vitro or in vivo of proteins.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:81277 USPATFULL  
TITLE: Methods for generating polynucleotides having desired characteristics by iterative selection and recombination  
INVENTOR(S): Stemmer, Willem P. C., Los Gatos, CA, United States  
PATENT ASSIGNEE(S): Maxygen, Inc., Redwood City, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6372497	B1	20020416
APPLICATION INFO.:	US 2000-590774		20000608 (9)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1996-621859, filed on 25 Mar 1996, now patented, Pat. No. US 6117679 Continuation-in-part of Ser. No. US 1995-564955, filed on 30 Nov 1995, now patented, Pat. No. US 5811238 Continuation-in-part of Ser. No. US 537874, now patented, Pat. No. US 5830721 Continuation-in-part of Ser. No. US 1994-198431, filed on 17 Feb 1994, now patented, Pat. No. US 5605793		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Whisenant, Ethan		
LEGAL REPRESENTATIVE:	Kruse, Norman J., Quine, Jonathan Alan, The Law Offices of Jonathan Alan Quine		
NUMBER OF CLAIMS:	37		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	72 Drawing Figure(s); 37 Drawing Page(s)		
LINE COUNT:	6311		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 2 OF 56 USPATFULL  
TI Methods of evolving a polynucleotides by mutagenesis and recombination  
AB A **method** of mutating a polynucleotide such that it has a desired or improved functional property is disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:69827 USPATFULL  
TITLE: Methods of evolving a polynucleotides by mutagenesis and recombination  
INVENTOR(S): Stemmer, Willem P. C., Los Gatos, CA, United States  
PATENT ASSIGNEE(S): Maxygen, Inc., Redwood City, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6365408	B1	20020402
APPLICATION INFO.:	US 2000-477763		20000104 (9)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1998-100856, filed on 19 Jun 1998, now patented, Pat. No. US 6132970 Continuation of Ser. No. US 537874, now patented, Pat. No. US 5830721		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Whisenant, Ethan		
LEGAL REPRESENTATIVE:	Kruse, Norman, Liebeschuetz, Joe		

NUMBER OF CLAIMS: 40  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 5 Drawing Figure(s); 15 Drawing Page(s)  
LINE COUNT: 4167  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 3 OF 56 USPATFULL

TI Exonuclease-mediated nucleic acid reassembly in directed evolution  
AB This invention provides methods of obtaining novel polynucleotides and encoded polypeptides by the use of non-stochastic methods of directed evolution (DirectEvolution.TM.). A particular advantage of exonuclease-mediated reassembly methods is the ability to reassemble nucleic acid strands that would otherwise be problematic to chimerize. Exonuclease-mediated reassembly methods can be used in combination with other mutagenesis methods provided herein. These methods include non-stochastic polynucleotide site-saturation mutagenesis (Gene Site Saturation Mutagenesis.TM.) and non-stochastic polynucleotide reassembly (GeneReassembly.TM.). This invention provides methods of obtaining novel enzymes that have optimized physical &/or biological properties. Through use of the claimed methods, genetic vaccines, enzymes, small molecules, and other desirable molecules can be evolved towards desirable properties. For example, vaccine vectors can be obtained that exhibit increased efficacy for use as genetic vaccines. Vectors obtained by using the methods can have, for example, enhanced antigen expression, increased uptake into a cell, increased stability in a cell, ability to tailor an immune response, and the like. Furthermore, this invention provides methods of obtaining a variety of novel biologically active molecules, in the fields of antibiotics, pharmacotherapeutics, and transgenic traits.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:63712 USPATFULL

TITLE: Exonuclease-mediated nucleic acid reassembly in directed evolution

INVENTOR(S): Short, Jay M., Rancho Santa Fe, CA, United States  
Djavakhishvili, Tsotne David, San Diego, CA, United States

Frey, Gerhard Johann, San Diego, CA, United States

PATENT ASSIGNEE(S): Diversa Corporation, San Diego, CA, United States  
(U.S.

corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6361974	B1	20020326
APPLICATION INFO.:	US 2000-535754		20000327 (9)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 2000-522289, filed on 9 Mar 2000 Continuation-in-part of Ser. No. US 2000-498557, filed on 4 Feb 2000 Continuation-in-part of Ser. No. US 2000-495052, filed on 31 Jan 2000 Continuation-in-part of Ser. No. US 1999-332835, filed on 14 Jun 1999 Continuation-in-part of Ser. No. US 1999-276860, filed on 26 Mar 1999 Continuation-in-part of Ser. No. US 1999-267118, filed on 9 Mar 1999 Continuation-in-part of Ser. No. US 1999-246178, filed on 4 Feb 1999 Continuation-in-part of Ser. No. US 1998-185373, filed on 3 Nov 1998 Continuation of Ser. No. US 1996-760489, filed on 5 Dec 1996, now patented, Pat. No. US 5830696 Continuation-in-part of Ser. No. 1997-962504, filed on 31 Oct 1997, now patented, Pat.		

US

No. US 6029056 Continuation-in-part of Ser. No. US  
1996-677112, filed on 9 Jul 1996, now patented, Pat.  
No. US 5965408 Continuation-in-part of Ser. No. US  
1996-651568, filed on 22 May 1996, now patented, Pat.  
No. US 5939250

	NUMBER	DATE
PRIORITY INFORMATION:	US 1995-8311P	19951207 (60)
	US 1995-8316P	19951207 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Park, Hankyel T.	
LEGAL REPRESENTATIVE:	Gray Cary Ware & Freidenrich, Haile, Lisa A., Shen, Greg	
NUMBER OF CLAIMS:	15	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	6 Drawing Figure(s); 6 Drawing Page(s)	
LINE COUNT:	7313	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L5 ANSWER 4 OF 56 USPATFULL

TI End selection in directed evolution

AB This invention provides methods of obtaining novel polynucleotides and encoded polypeptides by the use of non-stochastic methods of directed evolution (DirectEvolution.TM.). A particular advantage of end-selection-based methods is the ability to recover full-length polynucleotides from a library of progeny molecules generated by mutagenesis methods. These methods include non-stochastic polynucleotide

site-saturation mutagenesis (Gene Site Saturation Mutagenesis.TM.) and non-stochastic polynucleotide reassembly (GeneReassembly.TM.). This invention provides methods of obtaining novel enzymes that have optimized physical &/or biological properties. Through use of the claimed methods, genetic vaccines, enzymes, small molecules, and other desirable molecules can be evolved towards desirable properties. For example, vaccine vectors can be obtained that exhibit increased efficacy

for use as genetic vaccines. Vectors obtained by using the methods can have, for example, enhanced antigen expression, increased uptake into a cell, increased stability in a cell, ability to tailor an immune response, and the like. Furthermore, this invention provides methods of obtaining a variety of novel biologically active molecules, in the fields of antibiotics, pharmacotherapeutics, and transgenic traits.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:57570 USPATFULL

TITLE: End selection in directed evolution

INVENTOR(S): Short, Jay M., Encinitas, CA, United States

Frey, Gerhard Johann, San Diego, CA, United States

PATENT ASSIGNEE(S): Diversa Corporation, San Diego, CA, United States  
(U.S.

corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6358709	B1	20020319
APPLICATION INFO.:	US 2000-522289		20000309 (9)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 2000-498557, filed on 4 Feb 2000 Continuation-in-part of Ser. No. US 2000-495052, filed on 13 Jan 2000 Continuation-in-part of Ser. No. US 1999-332835, filed on 14 Jun 1999, now abandoned Continuation-in-part of Ser. No. US 1999-276860, filed on 26 Mar 1999 Continuation-in-part		

of Ser. No. US 1999-267118, filed on 9 Mar 1999, now  
patented, Pat. No. US 6238884 Continuation-in-part of  
Ser. No. US 1999-246178, filed on 4 Feb 1999, now  
patented, Pat. No. US 6171820 Continuation-in-part of  
Ser. No. US 1998-185373, filed on 3 Nov 1998  
Continuation of Ser. No. US 1996-760489, filed on 5

Dec

1996, now patented, Pat. No. US 5830696  
Continuation-in-part of Ser. No. US 1997-962504, filed  
on 31 Oct 1997 Continuation-in-part of Ser. No. US  
1996-677112, filed on 9 Jul 1996, now patented, Pat.  
No. US 5965408 Continuation-in-part of Ser. No. US  
1996-651568, filed on 22 May 1996, now patented, Pat.  
No. US 5939250

	NUMBER	DATE
PRIORITY INFORMATION:	US 1995-8311P	19951207 (60)
	US 1995-8316P	19951207 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Park, Hankyel T.	
LEGAL REPRESENTATIVE:	Gray Cary Ware & Freidenrich LLP, Haile, Lisa A.	
NUMBER OF CLAIMS:	36	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	11 Drawing Figure(s); 7 Drawing Page(s)	
LINE COUNT:	7029	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 5 OF 56 USPATFULL  
TI Human single nucleotide polymorphisms  
AB The invention provides nucleic acid segments of the human genome,  
particularly nucleic acid segments from genes including polymorphic  
sites. Allele-specific primers and probes hybridizing to regions  
flanking or containing these sites are also provided. The nucleic  
acids,  
primers and probes are used in applications such as phenotype  
correlations, forensics, paternity testing, medicine and genetic  
analysis.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:55155 USPATFULL  
TITLE: Human single nucleotide polymorphisms  
INVENTOR(S): Cargill, Michele, Gaithersburg, MD, UNITED STATES  
Ireland, James S., Gaithersburg, MD, UNITED STATES  
Lander, Eric S., Cambridge, MA, UNITED STATES  
PATENT ASSIGNEE(S): Whitehead Institute for Biomedical Research,  
Cambridge,  
MA, UNITED STATES (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002032319	A1	20020314
APPLICATION INFO.:	US 2001-801274	A1	20010307 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-187510P	20000307 (60)
	US 2000-206129P	20000522 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	HAMILTON BROOK SMITH AND REYNOLDS, P.C., TWO MILITIA DR, LEXINGTON, MA, 02421-4799	
NUMBER OF CLAIMS:	12	



EXEMPLARY CLAIM: 1  
LINE COUNT: 8981  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 6 OF 56 USPATFULL

TI **METHOD** OF DNA SHUFFLING WITH POLYNUCLEOTIDES PRODUCED BY  
BLOCKING OR INTERRUPTING A SYNTHESIS OR AMPLIFICATION PROCESS

AB Disclosed is a process of performing "Sexual" PCR which includes  
generating random polynucleotides by interrupting or blocking a  
synthesis or amplification process to show or halt synthesis or  
amplification of at least one polynucleotide, optionally amplifying the  
polynucleotides, and reannealing the polynucleotides to produce random  
mutant polynucleotides. Also provided are vector and expression  
vehicles  
including such mutant polynucleotides, polypeptides expressed by the  
mutant polynucleotides and a **method** for producing random  
mutant polypeptides.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:48252 USPATFULL

TITLE: **METHOD** OF DNA SHUFFLING WITH POLYNUCLEOTIDES  
PRODUCED BY BLOCKING OR INTERRUPTING A SYNTHESIS OR  
AMPLIFICATION PROCESS

INVENTOR(S): SHORT, JAY M., ENCINITAS, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002028443	A1	20020307
APPLICATION INFO.:	US 1999-214645	A1	19990927 (9)
	WO 1997-US12239		19970709
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	LISA A. HAILE PH.D., GRAY CARY WARE & FREIDENRICH LLP, 4365 EXECUTIVE DRIVE, SUITE 1600, SAN DIEGO, CA, 92121		
NUMBER OF CLAIMS:	8		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	6 Drawing Page(s)		
LINE COUNT:	2551		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 7 OF 56 USPATFULL

TI Exonuclease-mediated gene assembly in directed evolution

AB A directed evolution process comprising novel methods for generating  
improved progeny molecules having desirable properties, including, for  
example, a **method** for rapid and facilitated **production**  
from a parental polynucleotide template, of a set of mutagenized  
progeny  
polynucleotides wherein at least one codon encoding each of the 20  
naturally encoded amino acids is represented at each original codon  
position. This **method**, termed site-saturation mutagenesis, or  
simply saturation mutagenesis, is preferably based on the use of the  
degenerate N,N,G/T sequence. Also, a **method** of producing from  
a parental polypeptide template, a set of mutagenized progeny  
polypeptides wherein each of the 20 naturally encoded amino acids is  
represented at each original amino acid position. Also, other  
mutagenization processes that can be used in combination with, or in  
lieu of, saturation mutagenesis, including, for example: (a) assembly  
and/or reassembly of polynucleotide building blocks (including sections  
of genes &/or of gene families) mediated by a source of exonuclease  
activity such as exonuclease III; and (b) introduction of two or more  
related polynucleotides into a suitable host cell such that a hybrid  
polynucleotide is generated by recombination and reductive  
reassortment.

Also molecular property screening methods, including a preferred

**method**, termed end selection, comprised of using an enzyme, such as a topoisomerase, a restriction endonuclease, &/or a nicking enzyme (such as N. Bst<sup>II</sup>), to detect a specific terminal sequence in a working polynucleotide, to produce a ligatable end thereat, and to ligate and clone the working polynucleotide.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:45482 USPATFULL

TITLE: Exonuclease-mediated gene assembly in directed evolution

INVENTOR(S): Short, Jay M., Encinitas, CA, United States  
Frey, Gerhard J., San Diego, CA, United States  
Djavakhishvili, Tsotne D., San Diego, CA, United States

States

PATENT ASSIGNEE(S): Diversa Corporation, San Diego, CA, United States  
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6352842	B1	20020305
APPLICATION INFO.:	US 1999-276860		19990326 (9)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1999-267118, filed on 9 Mar 1999, now patented, Pat. No. US 6238884		
	Continuation-in-part of Ser. No. US 1999-246178, filed on 4 Feb 1999, now patented, Pat. No. US 6171820		
	Continuation-in-part of Ser. No. US 1998-185373, filed on 3 Nov 1998 Continuation of Ser. No. US 1996-760489, filed on 5 Dec 1996, now patented, Pat. No. US 5830696		
	Continuation-in-part of Ser. No. US 1997-962504, filed on 31 Oct 1997, now abandoned Continuation-in-part of Ser. No. US 1996-677112, filed on 9 Jul 1996, now patented, Pat. No. US 5965408 Continuation-in-part of Ser. No. US 1996-651568, filed on 22 May 1996, now patented, Pat. No. US 5939250		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1995-8311P	19951207 (60)
	US 1995-8316P	19951207 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Park, Hankyel T.	
LEGAL REPRESENTATIVE:	Gray Cary Ware & Freidenrich LLP, Haile, Lisa A., Shen, Greg	
NUMBER OF CLAIMS:	20	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	1 Drawing Figure(s); 1 Drawing Page(s)	
LINE COUNT:	4817	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 8 OF 56 USPATFULL

TI Expressed sequences of arabidopsis thaliana

AB Isolated nucleotide compositions and sequences are provided for Arabidopsis thaliana genes. The nucleic acid compositions find use in identifying homologous or related genes; in producing compositions that modulate the expression or function of its encoded protein, mapping functional regions of the protein; and in studying associated physiological pathways. The genetic sequences may also be used for the genetic manipulation of cells, particularly of plant cells. The encoded gene products and modified organisms are useful for screening of biologically active agents, e.g. fungicides, insecticides, etc.; for elucidating biochemical pathways; and the like.



CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 002:38558 USPATFULL

TITLE: Expressed sequences of arabidopsis thaliana

INVENTOR(S): Gorlach, Jorn, Durham, NC, UNITED STATES

An, Yong-Qiang, San Diego, CA, UNITED STATES

Hamilton, Carol M., Apex, NC, UNITED STATES

Price, Jennifer L., Raleigh, NC, UNITED STATES

Raines, Tracy M., Durham, NC, UNITED STATES

Yu, Yang, Martinsville, NJ, UNITED STATES

Rameaka, Joshua G., Durham, NC, UNITED STATES

Page, Amy, Durham, NC, UNITED STATES

Mathew, Abraham V., Cary, NC, UNITED STATES

Ledford, Brooke L., Holly Springs, NC, UNITED STATES

Woessner, Jeffrey P., Hillsborough, NC, UNITED STATES

Haas, William David, Durham, NC, UNITED STATES

Garcia, Carlos A., Carrboro, NC, UNITED STATES

Kricker, Maja, Pittsboro, NC, UNITED STATES

Slater, Ted, Apex, NC, UNITED STATES

Davis, Keith R., Durham, NC, UNITED STATES

Allen, Keith, Cary, NC, UNITED STATES

Hoffman, Neil, Chapel Hill, NC, UNITED STATES

Hurban, Patrick, Raleigh, NC, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002023280	A1	20020221
APPLICATION INFO.:	US 2001-770444	A1	20010126 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-178502P	20000127 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	PARADIGM GENETICS, INC, 104 ALEXANDER DRIVE, BUILDING 2, P O BOX 14528, RTP, NC, 277094528	
NUMBER OF CLAIMS:	27	
EXEMPLARY CLAIM:	1	
LINE COUNT:	3845	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 9 OF 56 USPATFULL

TI Methods for recombining nucleic acids

AB A **method** for DNA reassembly after random fragmentation, and its application to mutagenesis of nucleic acid sequences by in vitro or in vivo recombination is described. In particular, a **method** for the **production** of nucleic acid fragments or polynucleotides encoding mutant proteins is described. The present invention also relates to a **method** of repeated cycles of mutagenesis, shuffling and selection which allow for the directed molecular evolution in vitro or in vivo of proteins.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:24196 USPATFULL

TITLE: Methods for recombining nucleic acids

INVENTOR(S): Stemmer, Willem P.C., Los Gatos, CA, United States

PATENT ASSIGNEE(S): Maxygen, Inc., Redwood City, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6344356	B1	20020205
APPLICATION INFO.:	US 2000-590778		20000608 (9)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1996-621859, filed on 25		

Mar 1996, now patented, Pat. No. US 6117679  
Continuation-in-part of Ser. No. US 1995-564955, filed  
on 30 Nov 1995, now patented, Pat. No. US 5811238  
Continuation-in-part of Ser. No. US 537874, now  
patented, Pat. No. US 5830721 Continuation-in-part of  
Ser. No. US 1994-198431, filed on 17 Feb 1994, now  
patented, Pat. No. US 5605793

DOCUMENT TYPE: Utility  
FILE SEGMENT: GRANTED  
PRIMARY EXAMINER: Whisenant, Ethan  
LEGAL REPRESENTATIVE: Kruse, Norman J., Quine, Jonathan Alan, Law Offices of  
Jonathan Alan Quine  
NUMBER OF CLAIMS: 37  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 72 Drawing Figure(s); 37 Drawing Page(s)  
LINE COUNT: 6408  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 10 OF 56 USPATFULL

TI Arrays for identifying agents which mimic or inhibit the activity of  
interferons  
AB Methods and model systems for identifying and characterizing new  
therapeutic agents, particularly proteins, which mimic or inhibit the  
activity of all interferons, Type I interferons, IFN-.alpha.,  
IFN-.beta., or IFN-.gamma.. The **method** comprises administering  
an interferon selected from the group consisting of IFN-.alpha., IFN  
.beta., IFN-.tau., IFN-.omega., IFN-.gamma., and combinations thereof  
to  
cultured cells, administering the candidate agent to a duplicate  
culture  
of cells; and measuring the effect of the candidate agent and the  
interferon on the transcription or translation of one or, preferably, a  
plurality of the interferon stimulated genes or the interferon  
repressed  
genes (hereinafter referred to as "ISG's" and "IRGs", respectively).  
The  
model system is an array with gene probes that hybridize with from  
about  
100 to about 5000 ISG and IRG transcripts.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2001:231143 USPATFULL  
TITLE: Arrays for identifying agents which mimic or inhibit  
the activity of interferons  
INVENTOR(S): Silverman, Robert H., Beachwood, OH, United States  
Williams, Bryan R. G., Cleveland, OH, United States  
Der, Sandy, Cleveland, OH, United States  
PATENT ASSIGNEE(S): The Cleveland Clinic Foundation, Cleveland, OH, United  
States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6331396	B1	20011218
APPLICATION INFO.:	US 1999-405438		19990923 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1998-101497P	19980923 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Zitomer, Stephanie	
ASSISTANT EXAMINER:	Forman, B J	
LEGAL REPRESENTATIVE:	Calfee, Halter & Griswold LLP	
NUMBER OF CLAIMS:	8	

EXEMPLARY CLAIM: 1  
LINE COUNT: 9639  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.